

END00-0027-US1
Amendment dated 2/2/2004

09/534,901

00240078AA
Reply to office action mailed 11/13/2003

The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1 1 (Previously presented). A method of filtering a datastream containing
2 transport table sections, said method comprising steps of
3 determining presence of transport table sections in a payload portion of
4 a packet of said datastream from a table identification (TID) field in a header
5 of said packet,
6 filtering a portion of said transport table sections in accordance with a
7 mask which defines a filter function and a logic state of a not match bit to
8 provide a compare result,
9 selecting a next mask and a portion of said transport table sections in
10 accordance with a filter ID, and
11 combining compare result values in accordance with a logic values of
12 not match bits in a not match indication register,
13 whereby an arbitrary length of said transport table sections are filtered
14 by an arbitrary number of filters having arbitrary filter functions.

1 2 (Original) A method as recited in claim 1, wherein said filter ID is
2 implemented in a control word.

1 3 (Original). A method as recited in claim 2, wherein said Filter ID includes a
2 section filter ID and a next filter ID.

END00-0027-US1
Amendment dated 2/2/2004

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1 4 (Previously presented). A method as recited in claim 1, wherein said
2 combining step includes ANDing or ORing compare result values of a bit or
3 over a group of bits in accordance with logic values of not match bits
4 corresponding to said bit or group of bits.

1 5 (Original). A method as recited in claim 4, wherein said combining step
2 further includes the step of
3 accumulating a matchword over a plurality of blocks of filtered data.
(1)

1 6 (Original). A method as recited in claim 5, wherein said step of
2 accumulating a matchword is performed by
3 ANDing a current matchword bit with a corresponding bit of a
4 previous matchword if the filtering applied to the current block is positive or
5 mixed filtering, and
6 ORing a current matchword bit with a corresponding bit of a previous
7 matchword if the filtering applied to the current block is negative filtering
8 in accordance with said contents of said not match indication register.

1 7 (Previously presented). A method as recited in claim 5, wherein said step of
2 accumulating a matchword is performed in accordance with logic functions
3 specified by at least one extra bit.

1 8 (Original). A method of filtering a datastream, said method comprising
2 steps of
3 filtering a portion of said datastream in accordance with a logic state of
4 a not match bit and a Filter ID to provide a compare result, and
5 combining compare result values in accordance with a logic values of
6 not match bits in a not match indication register corresponding to said portion,

END00-0027-US1
Amendment dated 2/2/2004

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7 whereby an arbitrary length of said datastream is filtered by an
8 arbitrary filter function.

1 9 (Original). A method as recited in claim 8, wherein said filter ID is
2 implemented in a control word.

1 10 (Original). A method as recited in claim 9, wherein said Filter ID includes
2 a section filter ID and a next filter ID.

1 11 (Previously presented). A method as recited in claim 8, wherein said
2 combining step includes ANDing or ORing compare result values of a bit or
3 over a group of bits in accordance with logic values of not match bits
4 corresponding to said bit or group of bits.

1 12 (Original). A method as recited in claim 11, wherein said combining step
2 further includes the step of
3 accumulating a matchword over a plurality of blocks of filtered data.

1 13 (Original). A method as recited in claim 12, wherein said step of
2 accumulating a matchword is performed by
3 ANDing a current matchword bit with a corresponding bit of a
4 previous matchword if the filtering applied to the current block is positive or
5 mixed filtering, and
6 ORing a current matchword bit with a corresponding bit of a previous
7 matchword if the filtering applied to the current block is negative filtering
8 in accordance with said contents of said not match indication register.

END00-0027-US1
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09/534,901

00240078AA
Reply to office action mailed 11/13/2003

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- 1 14 (Previously presented). A method as recited in claim 12, wherein said step
- 2 of accumulating a matchword is performed in accordance with logic functions
- 3 specified by at least one extra bit.
